October 1986

ISSN 0 009–2614

CHEMICAL PHYSICS LETTERS

Editors: A.D. BUCKINGHAM

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Printed in The Netherlands Published weekly Library of Congress Catalog Card Number 68—26532

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NORTH-HOLLAND – AMSTERDAM

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Albano, E., G. Andreasen and J. Heras, Evidence of the decomposition of pyridine molecules on coldly deposited SERS active copper films 124 (1986) 567
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Alves Marques, M. and M.I. Cabaço, Molecular models of the structure of concentrated electrolytic solutions, Chem. Phys. Letters 123 (1986) 73. Erratum 124 (1986) 487
Alves Marques, M., M.I. Cabaço and M.A. Sousa Oliveira, X-ray diffraction investigations of the structure of concentrated ionic solutions 126 (1986) 551
Amano, T., Spectroscopic detection of protonated N_2O 127 (1986) 101
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Amos, R.D., SCF dipole moment derivatives, harmonic frequencies and infrared intensities for C_2H_2 and C_2H_4. Chem. Phys. Letters 114 (1985) 10. Erratum 122 (1985) 180
Amos, R.D., see J.E. Rice 122 (1985) 585
Amos, R.D., Calculation of polarizability derivatives using analytic gradient methods 124 (1986) 376
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Anderson, B.E., R.D. Jones, A.A. Rehms, P. Ilich and P.R. Callis, Polarized two-photon fluorescence excitation spectra of indole and benzimidazole 125 (1986) 106
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Appolloni, L., B. Brunetti, J. Hermanussen, F. Vecchiocattivi and G.G. Volpi, Ionization of mercury by thermal energy collisions with metastable krypton atoms 129 (1986) 287

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Bagchi, B., Dynamic structure factor across the liquid–solid interface: appearance of a delta-function elastic peak 125 (1986) 91
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Bain, A.J., P.J. McCarthy and R.M. Hochstrasser, Picosecond polarization spectroscopy as a probe of intramolecular dynamics: rovibronic relaxation in the S_1 state of trans-stilbene, Chem. Phys. Letters 125 (1986) 307. Erratum 128 (1986) 335
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Baird, N.C. and G.C. Hadley, An analysis of predictions by the semi-empirical MNDO molecular orbital method for some aspects of molecular energetics 128 (1986) 31
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Balasubramanian, K., On the low-lying electronic states of BiF 127 (1986) 324

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Balasubramanian, K., J.J. Kaufman, P.C. Hariharan and W.S. Koski, Energy transfer in Br^+–Kr collisions 129 (1986) 165
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Ballard, R.E., J. Jones and D. Read, The surface concentrations of binary liquid mixtures measured by UV photoelectron spectroscopy 121 (1985) 45
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Ballard, R.E., J. Jones, D. Read and A. Inchley, New apparatus for liquid sampling in electron spectroscopy. He(I) spectra of the vapours and surfaces of methanol, ethanol, 1-heptanol and 1-decanol 127 (1986) 149
Ballard, R.E., J. Jones, D. Read and A. Inchley, Surface activity of solutes in hydroxypropionitrile studied by He(I) photoelectron spectroscopy – egg lecithin, sodium oleate, malachite green and tris-(dioxa-3,6-heptyl)amine 128 (1986) 76
Ballard, R.E., J. Jones, D. Read and A. Inchley, The surface activity of *p*-aminotriphenylmethane dyes in organic solvents – He(I) photoelectron spectra 129 (1986) 403
Ballard, R.E., J. Jones, D. Read and A. Inchley, Electrostatic charges on surfaces of insulating liquids – effects in He(I) photoelectron spectroscopy 130 (1986) 49
Ballardini, R., M.T. Gandolfi and V. Balzani, Photoinduced electron transfer within ion pairs. Direct measure of the intramolecular electron transfer quenching constant, Chem. Phys. Letters 119 (1985) 459. Erratum 122 (1985) 524
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Beckmann, H.-O., W. Braun, H.-W. Jochims, E. Rühl and H. Baumgärtel, Photoionization mass spectrometry of gaseous ethene and fluoroethenes in the energy range 280–300 eV 121 (1985) 499
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Birk, M. and M. Winnewisser, The rotation–vibration spectrum of gaseous carbodiimide (HNCNH) 123 (1986) 386
Bishop, D.M. and S.A. Solunac, Aspects of finite-field calculations of polarizabilities for H_2^+ 122 (1985) 567
Bishop, D.M., J. Pipin and B. Lam, Field and field-gradient polarizabilities of BeH, BH and CH^+ 127 (1986) 377
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Blasse, G. and J. van Keulen, Luminescence properties of $Eu_2Sn_2O_7$ 124 (1986) 534
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Blatt, E., K.P. Ghiggino and W.H. Sawyer, Fluorescence anisotropy studies of *n*-(9-anthroyloxy) fatty acids in Triton X-100 micelles, Chem. Phys. Letters 114 (1985) 47. Erratum 122 (1985) 524
Blinder, S.M., Time-dependent WKB expansions for a class of propagators 123 (1986) 47
Blomberg, M.R.A., U.B. Brandemark and P.E.M. Siegbahn, The binding in neutral transition metal–water complexes 126 (1986) 317
Bloomfield, L.A., M.E. Geusic, R.R. Freeman and W.L. Brown, Negative and positive cluster ions of carbon and silicon 121 (1985) 33
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Blumenstock, Th., F.J. Comes, R. Schmidt and H.-D. Brauer, Picosecond laser photolysis study of the photocycloreversion of heterocoerdianthrone endoperoxide 127 (1986) 452
Blümich, B., see C. Schmidt 130 (1986) 84
Bobrov, A.V., Ya.M. Kimel'fel'd, L.S. Glebov, G.A. Kliger and S.M. Loktev, Raman study of activation of the iron catalyst, and in situ hydrogenation of acetophenone, Chem. Phys. Letters 118 (1985) 156. Erratum 122 (1985) 420
Bocian, D.F., M.B. Masthay and R.R. Birge, Effects of mono- versus di-substitution of conjugating groups on the electronic structure of porphyrins 125 (1986) 467
Boden, N., R.J. Bushby, C. Hardy and F. Sixl, Phase behaviour and structure of a non-ionic discoidal amphiphile in water 123 (1986) 359
Bodrov, A.E. and F.I. Dalidchik, The continued fraction method in the theory of slow electron scattering by molecules and molecular ions 130 (1986) 531
Boeglin, A., K. Lin, S.H. Lin and B. Fain, Theory of laser-stimulated phase transition kinetics in solids 129 (1986) 493
Boesiger, J. and S. Leutwyler, Van der Waals vibrations and binding energies of carbazole · Kr 126 (1986) 238
Bogey, M., C. Demuynck and J.L. Destombes, Centrifugal distortion analysis of the rotational spectrum of cyclopropenylidene HCC̈CH 125 (1986) 383
Bogey, M., C. Demuynck, J.L. Destombes and J.C. Guillemin, The millimeter and submillimeter wave spectrum of cyclopropene 125 (1986) 569
Böhm, M.C. and R. Gleiter, The photoelectron spectrum of bis(π-allyl)nickel. A comparison between semi-empirical and ab initio Green's function methods 123 (1986) 87
Böhringer, H., Third-body-assisted, binary ion–molecule reactions. The reaction $NH_3^+ + H_2 \rightarrow NH_4^+ + H$ 122 (1985) 185
Boissoles, J., C. Boulet and D. Robert, Towards the calculation of line mixing effects: a semiclassical calculation of rotationally inelastic cross sections 122 (1985) 237
Boivineau, M., J. le Calvé, M.C. Castex and C. Jouvet, Role of the entrance channel on the product internal energy distribution in the reaction: $(Xe–Cl_2)^* \rightarrow XeCl^* + Cl$ 128 (1986) 528
Boivineau, M., J. le Calvé, M.C. Castex and C. Jouvet, Observation of the intermediate states in the $(Xe–Cl_2)^* \rightarrow XeCl^*$ (B, C) + Cl reaction 130 (1986) 208
Boland, J.J., F.G. Halaka and J.D. Baldeschwieler, A novel scheme for structure determination in EXAFS 129 (1986) 1
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Bonnie, J.H.M., J.W.J. Verschuur, H.J. Hopman and H.B. van Linden van den Heuvell, Photoelectron spectroscopy on resonantly enhanced multiphoton dissociative ionization of hydrogen molecules 130 (1986) 43
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Botár, L. and I. Ruff, Effect of exchange reaction on transport processes: Fick's second law for diffusion on lattice points 126 (1986) 348
Botschwina, P., Spectroscopic properties of $HCNH^+$ calculated by SCEP CEPA 124 (1986) 382
Böttcher, R., see H. Metz 127 (1986) 278
Böttcher, R., W. Brunner, B. Milsch, G. Völkel, W. Windsch and S.T. Kirillov, EPR, ENDOR and ESE investigations on chromium modified $PbTiO_3$ ceramics 129 (1986) 546
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Bouderbala, M., G. Boulon, R. Reisfeld, A. Buch, M. Ish-Shalom and A.-M. Lejus, Time-resolved and temperature-dependent spectra of chromium(III) in glasses and spinel-type glass-ceramics 121 (1985) 535
Bouderbala, M., G. Boulon, A.-M. Lejus, A. Kisilev, R. Reisfeld, A. Buch and M. Ish-Shalom, Laser spectroscopy of chromium(III) in magnesium aluminate spinels and transparent glass-ceramics 130 (1986) 438
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Boyle, M.E., B.E. Williamson, P.N. Schatz, J.P. Marks and P.A. Snyder, Vacuum ultraviolet MCD and absorption spectra of P_4 isolated in an Ar matrix using synchrotron radiation 125 (1986) 349

Boyle, M.E., B.E. Williamson, P.N. Schatz, J.P. Marks and P.A. Snyder, Vacuum ultraviolet MCD and absorption spectra of benzene isolated in an Ar matrix using synchrotron radiation 130 (1986) 33
Bozso, F. and Ph. Avouris, Alkali co-adsorption and surface coverage effects on electron-stimulated desorption (ESD): CO and NO on Ni(111) 125 (1986) 531
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Breckenridge, W.H., H. Umemoto and J.-H. Wang, Initial internal energy distributions of CdH (CdD) produced in the reaction of $Cd(5s5p^3P_1)$ with H_2, D_2, and HD 123 (1986) 23
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Buma, W.J., E.J.J. Groenen and J. Schmidt, Pseudo-Jahn–Teller distortion of pyridine in its lowest triplet state 127 (1986) 189
Buma, W.J., E.J.J. Groenen and J. Schmidt, Pseudo-Jahn-Teller distortion of pyridine in its lowest triplet state, Chem. Phys. Letters 127 (1986) 189. Erratum 128 (1986) 335
Bumgarner, R.E., C.D. Cogley and S.G. Kukolich, Microwave spectrum of the HI–HF complex 122 (1985) 535
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Cacciatore, M. and G.D. Billing, Isotope separation by V–V pumping in CO 121 (1985) 99
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Caillol, J.M., A method for solving the hypernetted-chain approximation for molecular fluids 121 (1985) 347
Callear, A.B. and G.B. Smith, Reaction of atomic hydrogen with CH_3Br 122 (1985) 196
Callear, A.B. and K. Du, Fluorescence of excited complexes of the $^1P_1$ and $^3P_2$ states of Hg 6s6p with xenon 128 (1986) 141
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Cannistraro, S., Modulation by alcohol molecules of ferrihemoglobin electronic spin state and crystal field symmetry 122 (1985) 165
Cannistraro, S., Modulation by alcohol molecules of ferrihemoglobin electronic spin state and crystal field symmetry, Chem. Phys. Letters 122 (1985) 165. Erratum 123 (1986) 138
Canonica, S., A.A. Schmid and U.P. Wild, The rotational diffusion of *p*-terphenyl and *p*-quaterphenyl in non-polar solvents 122 (1985) 529
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Caralp, F., R. Lesclaux and A.M. Dognon, Kinetics of the reaction of CF_3 with O_2 over the temperature range 233–373 K 129 (1986) 433
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Castaño, O. and P. Karadakov, The spin-unrestricted and the spin-projected HF methods: a comparison based on the stability properties of the closed-shell RHF solutions for large cyclic polyenes 130 (1986) 123
Castella, M., A. Tramer and F. Piuzzi, Van der Waals, charge-transfer and "mixed" states of molecular complexes formed in supersonic jets 129 (1986) 105
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Černušák, I., G.H.F. Diercksen and M. Urban, On the effect of electron correlation in S_N2 reactions: $OH^- + CH_3F \rightleftharpoons CH_3OH + F^-$ 128 (1986) 538
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Cheikh, M., C. Alamichel, J.P. Chevillard and R. Hubbard, Study of the ν_1 infrared band of ONCl, Chem. Phys. Letters 125 (1986) 283. Erratum 127 (1986) 286
Chen, C.H. and M.P. McCann, Luminescence of alkali halide crystals by multiphoton excitation 126 (1986) 54
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Chojnacki, H., Z. Laskowski, A. Lewanowicz, Z. Ruziewicz and R. Wandas, Reinvestigation of the absorption spectrum of triphenylene: vibronic structure of the $S_1 \leftarrow S_0$ transition and location of higher excited singlet states 124 (1986) 478
Chou, P.-T. and H. Frei, Sensitization of $O_2\ ^1\Sigma_g^+ \rightarrow {}^1\Delta_g$ emission in solution, and observation of $O_2\ ^1\Delta_g \rightarrow {}^3\Sigma_g^-$ chemiluminescence upon decomposition of 1,4-dimethylnaphthalene endoperoxide 122 (1985) 87
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Coffey, W.T., On the role of period–amplitude dependence in the study of inertial effects and dipole–dipole coupling 123 (1986) 416

Coffey, W.T., P.M. Corcoran and J.K. Vij, Inertia-corrected Budó treatment of dielectric relaxation in polar molecules: application to the FIR spectrum of acetonitrile and hexanone-2 129 (1986) 375
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Cohen, M. and R.P. McEachran, Towards accurate atomic transition probabilities: variationally optimised dipole transition operators 126 (1986) 380
Colle, R., A. Fortunelli and O. Salvetti, Analysis of valence orbitals in the "core" regions 127 (1986) 84
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Connor, J.N.L. and W.J.E. Southall, The $H + D_2 \rightarrow HD + D$ reaction at 0.55, 0.98, 1.10 and 1.30 eV: a distorted-wave study using a new distortion potential 123 (1986) 139
Contreras, R., A. Aizman and J. Parra, Theoretical study of alkoxide ion solvation and its effect on the relative acidity of alcohols in DMSO 127 (1986) 169
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Cooper, G., J.C. Green, M.P. Payne, B.R. Dobson and I.H. Hillier, Observation of resonance effects in the relative partial photoionization cross sections of the d bands of $M(CO)_6$, M = Cr, Mo and W 125 (1986) 97
Cooper, I.L. and J.A. Harrison, An improved procedure for the construction of ion-pair distribution functions within the Debye–Hückel framework 122 (1985) 557
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Tevlin, P., S. Lafleur and L.E.H. Trainor, Non-bonded interactions in the enumeration of normal hydrocarbon conformations, Chem. Phys. Letters 122 (1985) 581. Erratum 125 (1986) 206
Thakur, M.K., B.S. Elman and M. Dagenais, Excitonic quadrupole absorption in a polydiacetylene 125 (1986) 328
Thayer, A.M., J.M. Millar and A. Pines, Two-dimensional zero-field NMR and NQR 129 (1986) 55
Thijssen, H.P.H. and S. Völker, Pitfalls in the determination of optical homogeneous linewidths in amorphous systems by hole-burning. Influences of the structure of the host, Chem. Phys. Letters 120 (1985) 496. Erratum 122 (1985) 180
Thoman Jr., J.W. and J.I. Steinfeld, Laser-excited fluorescence detection of SiH_2 produced in IR MPD of organosilanes 124 (1986) 35
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Torres, M., P. Raghunathan, J.L. Bourdelande, A. Clement, G. Toth and O.P. Strausz, Low-temperature photolysis of perfluorodiazopentanones: the formation of perfluoropropionylmethylmethylene, perfluoroacetylethylmethylene, perfluoroacetylethyl and perfluoropropionylmethyl diazirenes 127 (1986) 205
Torres, M., P. Raghunathan, J.L. Bourdelande, A. Clement, G. Toth and O.P. Strausz, Low temperature photolysis of perfluorodiazopentanones: the formation of perfluoropropionylmethylmethylene, perfluoroacetylethylmethylene, perfluoroacetylethyl and perfluoroproionylmethyl diazirenes, Chem. Phys. Letters 127 (1986) 205. Erratum 128 (1986) 220
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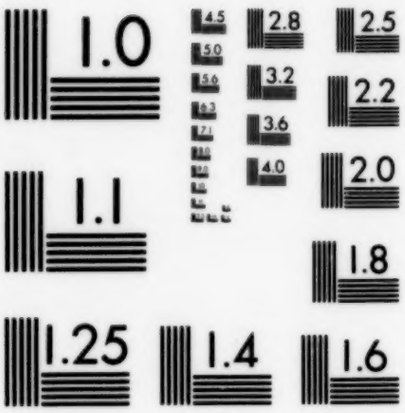
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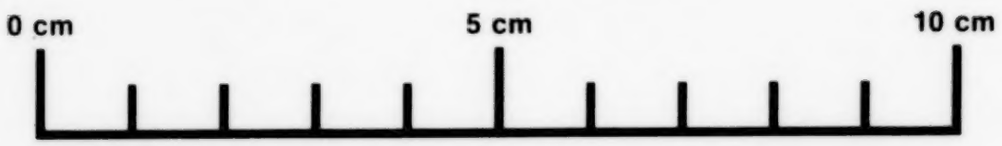
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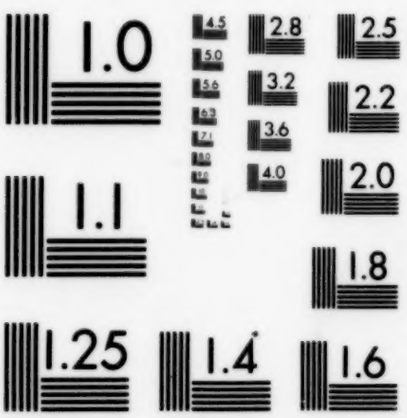
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